NDS3208 8 in 1 MPEG-2 Encoder

User's Manual

NMS Version: 1.12.5

SW: 2.07

HW: 1.3

CHENGDU DEXIN DIGITAL TECHNOLOGY CO., LTD

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Chapter 1 Product Introduction

1.1 Outline

The NDS3208 8 in 1 MPEG-2 Encoder is a professional SD audio & video encoding and multiplexing device. It has 8 channel CVBS video input interfaces, 8 pairs of unbalanced audio input interfaces, supporting MPEG-2 video encoding and MPEG 1 Layer 2 audio encoding. This device can simultaneously encode 8 channel SD audio & video; moreover, it has an ASI input and can multiplex the input TS with the 8 encoded SPTS to generate a MPTS output. In conclusion, its high integrated and cost effective design makes the device widely used in varieties of digital distribution systems such as cable TV digital head-end, satellite digital TV broadcasting etc.

1.2 Main Features

- 8×CVBS video inputs, 8 pairs of unbalanced audio inputs.
- 1×ASI input interface
- Audio MPEG-1 Layer2
- Supports MPEG-2 encoding format
- Supports CBR
- Supports IP output, MPTS or 8 SPTS output over UDP, RTP/RTSP
- Support PCR accurate adjusting
- Support PID re-mapping and passthrough
- Support PSI/SI editing
- Supports PAL and NTSC SD video formats
- Real-time effective encoding output bit-rate monitoring
- Supports web NMS operation
- Keyboard and LCD operation

1.3 Principle Chart

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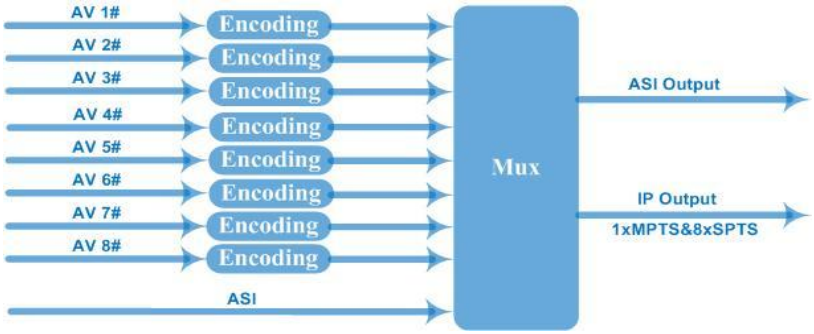

1.4 Specifications

Input	8×CVBS inputs,BNC interface	
	8 pairs of unbalanced audio inputs, BNC interface	
	1×ASI input, BNC interface	
Video	Resolution	PAL: 720×576_50i NTSC: 720×480_60i
	Encoding	MPEG-2
	Bit-rate	1Mbps~19.5Mbps
	Rate Control	CBR
	Chroma	4:2:0
	Aspect Ratio	4:3
Audio	Encoding	MPEG-1 Layer2
	Sampling rate	48KH
	Resolution	24 bit
	Bit-rate	64Kbps~384Kbps each channel
Multiplexing		1 ASI input multiplexed with local 8 channel SPTS
		PID re-mapping or passthrough
		PCR accurate adjusting
		PSI/SI editing
Stream output		2 ×ASI outputs, BNC interface
		1 MPTS / 8 SPTS over UDP, RTP/RTSP; 10/100Base-T Ethernet interface (uni-cast/multicast)
System function		LCD/keyboard operating, Web NMS support, Chinese-English control interface
		Ethernet software upgrade
General	Dimensions	482mm×455mm×44.5mm
	Approx weight	4Kg
	Temperature	0~45℃(Operation), -20~80℃(Storage)
	Power	AC 110V±10%,50/60Hz or AC 220V±10%,50/60Hz
	Power	17.6W

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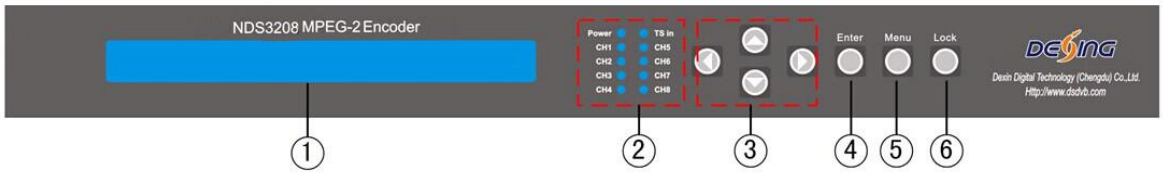
1.5 Appearance and Illustration

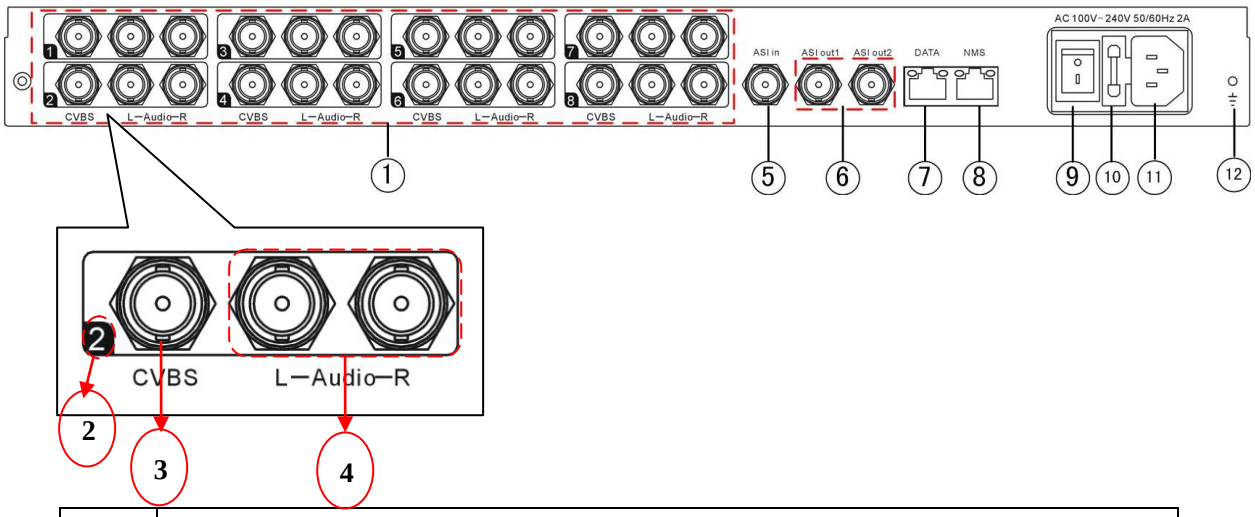
Front Panel Illustration:



Indicate area: All indicators will light on when the device is on the current working state.

1	LCD screen	
2	Indicators	Power indicator
		TS in: input lock indicator
		CH1-CH8: When program has been multiplexed, the indicator will be on.
3	UP/ DOWN, LEFT/RIGHT keys	
4	Enter key	
5	Menu key	
6	Lock key	

Rear Panel Illustration:



1	8 * CVBS input ports

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2	CVBS input serial number from 1 to 8
3	Video input port
4	Audio input port (Left & Right channels)
5	ASI input port
6	2 * ASI output ports
7	Data port (for IP signal output)
8	NMS (Network management port)
9	Power Switch
10	Fuse
11	Power socket
12	Grounding Pole

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Chapter 2 Installation Guide

2.1 Acquisition Check

When users open the package of the device, it is necessary to check items according to packing list. Normally it should include the following items:

- NDS3208 8 in 1 MPEG-2 Encoder
- User's Manual
- Analog Audio/Video Composite Input Cable
- ASI Cable
- Power Cord

If any item is missing or mismatching with the list above, please contact local dealer.

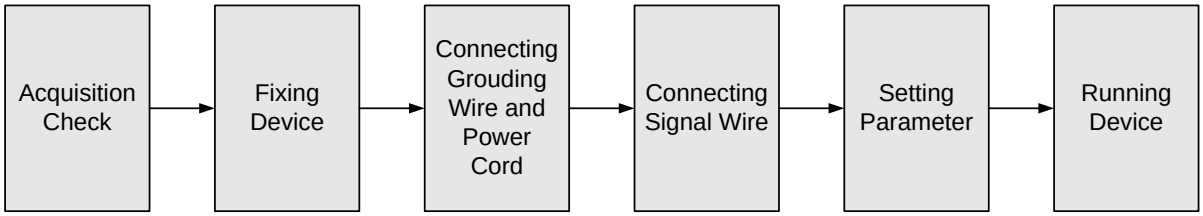
2.2 Installation Preparation

When users install device, please follow the below steps. The details of installation will be described at the rest part of this chapter. Users can also refer rear panel chart during the installation.

The main content of this chapter including:

- Checking the possible device missing or damage during the transportation
- Preparing relevant environment for installation
- Installing Encoder
- Connecting signal cables
- Connecting communication port (if it is necessary)

2.2.1 Device's Installation Flow Chart is Illustrated as following：



2.2.2 Environment Requirement

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Item	Requirement
Machine Hall Space	When user installs machine frame array in one machine hall, the distance between 2 rows of machine frames should be 1.2~1.5m and the distance against wall should be no less than 0.8m.
Machine Hall Floor	Electric Isolation, Dust Free Volume resistivity of ground anti-static material: $1X10^{7}$~$1X10^{10\Omega}$, Grounding current limiting resistance: 1M (Floor bearing should be greater than 450Kg/㎡)
Environment Temperature	5~40℃(sustainable)，0~45℃(short time)， installing air-conditioning is recommended
Relative Temperature	20%~80% sustainable 10%~90% short time
Pressure	86~105KPa
Door & Window	Installing rubber strip for sealing door-gaps and dual level glasses for window
Wall	It can be covered with wallpaper, or brightness less paint.
Fire Protection	Fire alarm system and extinguisher
Power	Requiring device power, air-conditioning power and lighting power are independent to each other. Device power requires AC power 220V 50Hz. Please carefully check before running.

2.2.3 Grounding Requirement

- All function modules' good grounding designs are the basis of reliability and stability of devices. Also, they are the most important guarantee of lightning arresting and interference rejection. Therefore, the system must follow this rule.
- Coaxial cable's outer conductor and isolation layer should keep proper electric conducting with the metal housing of device.
- Grounding conductor must adopt copper conductor in order to reduce high frequency impedance, and the grounding wire must be as thick and short as possible.
- Users should make sure the 2 ends of grounding wire well electric conducted and be antirust.
- It is prohibited to use any other device as part of grounding electric circuit
- The area of the conduction between grounding wire and device's frame should be no less than $25mm^2$.

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2.2.4 Frame Grounding

All the machine frames should be connected with protective copper strip. The grounding wire should be as short as possible and avoid circling. The area of the conduction between grounding wire and grounding strip should be no less than 25mm^2.

2.2.5 Device Grounding

Connecting the device's grounding rod to frame's grounding pole with copper wire.

2.3 Wire's Connection

The grounding wire conductive screw is located at the right end of rear panel, and the power switch, fuse, power supply socket is just beside ,whose order goes like this, power switch is on the left ,power supply socket is on the right and the fuse is just between them.

- Connecting Power Cord

  User can insert one end into power supply socket, while insert the other end to AC power.

- Connecting Grounding Wire

  When the device solely connects to protective ground, it should adopt independent way, say, share the same ground with other devices. When the device adopts united way, the grounding resistance should be smaller than 1Ω.

☞Caution:

Before connecting power cord to NDS3208 8 in 1 MPEG-2 Encoder, user should set the power switch to "OFF".

2.4 Signal Cable Connection

The signal connections include the connection of input signal cable and the connection of output signal cable. The details are as follows:

2.4.1 Unbalanced audio and CVBS video input cable illustration:

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2.4.2 ASI output cable illustration:

2.4.3 Network Cable illustration (CAT5):

2.4.4 Unbalanced audio and CVBS video input connection

User can firstly find the CVBS input connector on the device according to the connector mark described on the rear panel illustration, and then connect the analog CVBS video and unbalanced audio cables (in the accessories). One end is connected to the signal source equipment while the other end to the encoder's CVBS input port. The encoder's Analog Composite Video input port and its connection are illustrated as follows:

2.4.5 ASI output interface connection

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User can firstly find the ASI output interface on the device according to the connector mark described on the rear panel illustration, and then connect the ASI cable (in the accessories). One end is connected to the encoder's ASI out connector (ASI1, ASI2) while the other end to the TS stream multiplexer or modulator's ASI input port. The encoder's ASI output interface and its connection are illustrated as follow:

2.4.6 IP Output Interface connection

Users can firstly find the DATA interface on the device according to the connector mark described on the rear panel illustration, and then connect the network (CAT5). One end of the network cable is connected to the encoder's DATA output connector, while the other end to the TS stream multiplexer IP input port or other device which can input IP signal. The encoder's DATA connection is illustrated as follows:

2.4.7 NMS Connection

Users can firstly find the NMS interface on the device according to the connector mark described on the rear panel illustration, and then connect the network (CAT5). One end of the network cable is connected to the encoder's NMS connecter, while the other end to the computer or the PC. The encoder's NMS connection is illustrated as follows:

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Chapter 3 Operation

NDS3208 8 in 1 MPEG-2 Encoder's front panel is user operating interface. Before operating, user can decide whether directly use the default setting or customize the input and output parameters setting. The detail operations go as follows:

Keyboard Function Description:

ENTER: Activating the parameters which need modifications, or confirming the change after modification.

MENU: To cancel presently entered value, resume previous setting and return to previous menu.

LEFT/RIGHT: To move the "►" to choose or set the parameters.

UP/DOWN: To modify activated parameter or page up/down when parameter is inactivated.

LOCK: To Lock the screen / cancel the lock state. After pressing lock key, the system will question the users to save present setting or not. If not, the LCD will display the current configuration state.

At the "Factory Configuration" page, user can press "**ENTER**" key to restore the factory default configuration.

3.1 Initializing

After powering on the device，it will take a few seconds to initialize the system, and then the LCD will show the device name and output real-time bit-rate in the first row, while the 8 channels' respective serial number, and input real-time encoding bit-rate in the second row in turn. It shows as below:

8 in 1 Encoder			
1P 02.94M	2P 02.73M	3P 02.92M 4P	02.90M

3.2 General Setting

By pressing LOCK key, users can enter in the main menu and set the input and output

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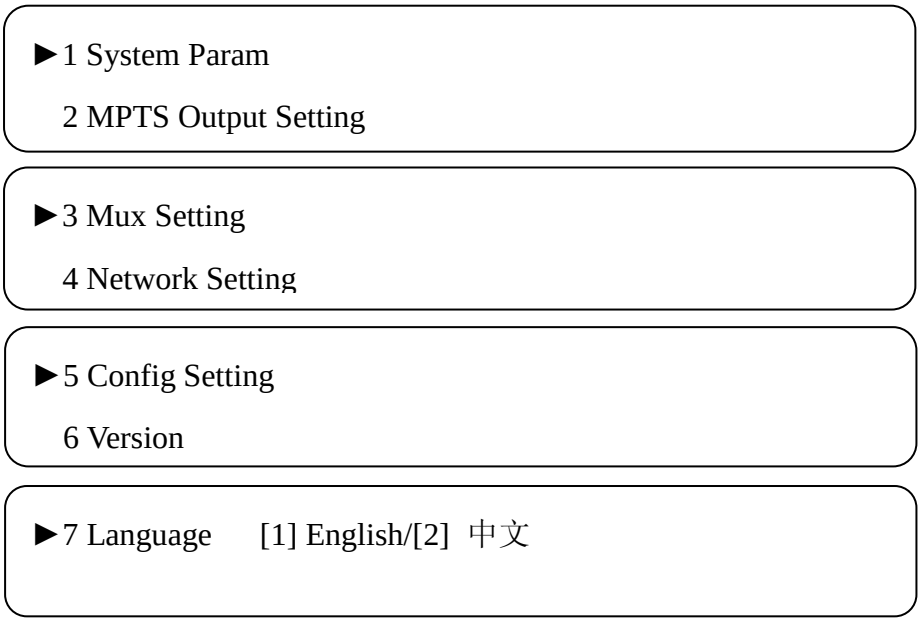
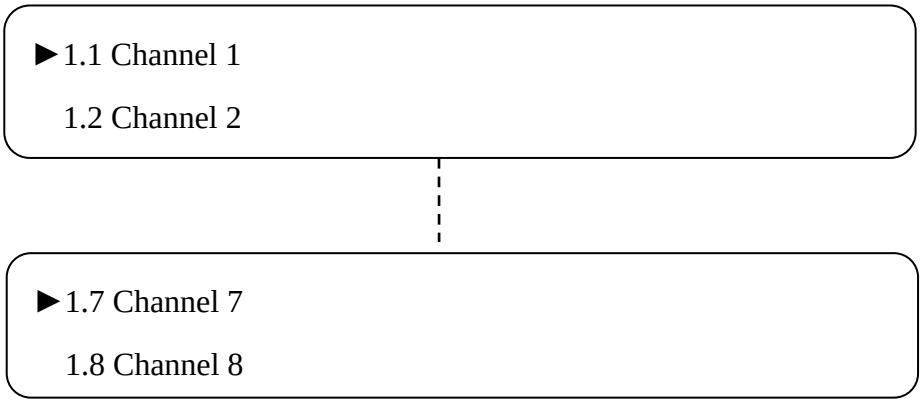
parameters in the following editing interfaces, the LCD will display the following pages:



The option with "►" is the current selection, users can press the ENTER key to enter the specified submenu to modify the device parameter.

3.2.1 System Setting

Under this menu, the LCD will display 8 submenus which from Encoding Channel 1 to Encoding Channel 8. The setting principle is the same for Encoding Channel 1-8, so here this manual just takes one channel as the example to explain. After pressing the enter key, the LCD will display the following pages:



After users enter the submenu, the interface will turn into the following pages, and then users can enter the corresponding interface to modify the parameters.

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3.2.1.1 Encoder Enable

This is for user to choose to output the program or not.

3.2.1.2 Video Param

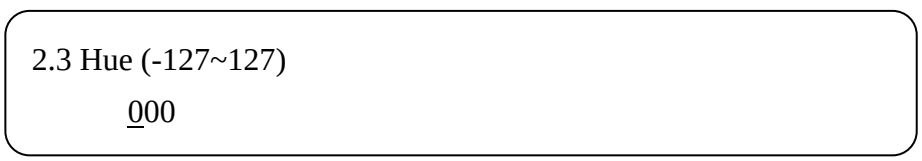
User can adjust the relevant parameters of input video in submenus of Brightness, Contrast, Saturation and Hue. The adjustable range is 0~255, while the adjustable range of Hue is -127～127. The figure outside the parentheses is decimal while the inside is hexadecimal.

NOTE: Below explanations are applied in this entire manual.

1) To press ENTER to start editing.

2) To move the underline through LEFT/RIGHT keys.

3) To modify the value of underlined character through UP/DOWN keys.



3.2.1.3 Encoder Param

User can modify the video, audio encoding bit rate and program information under this menu.

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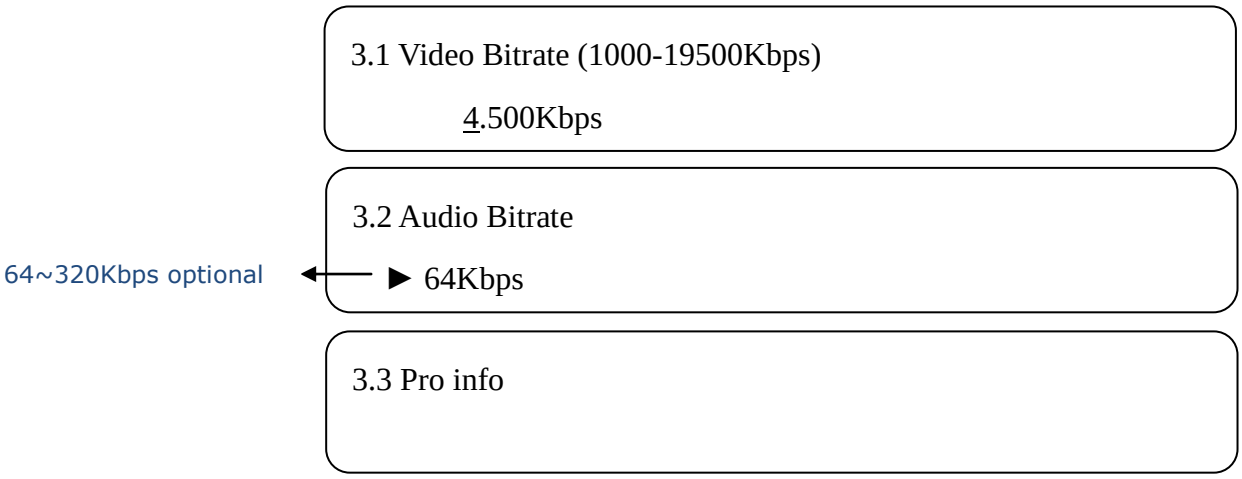
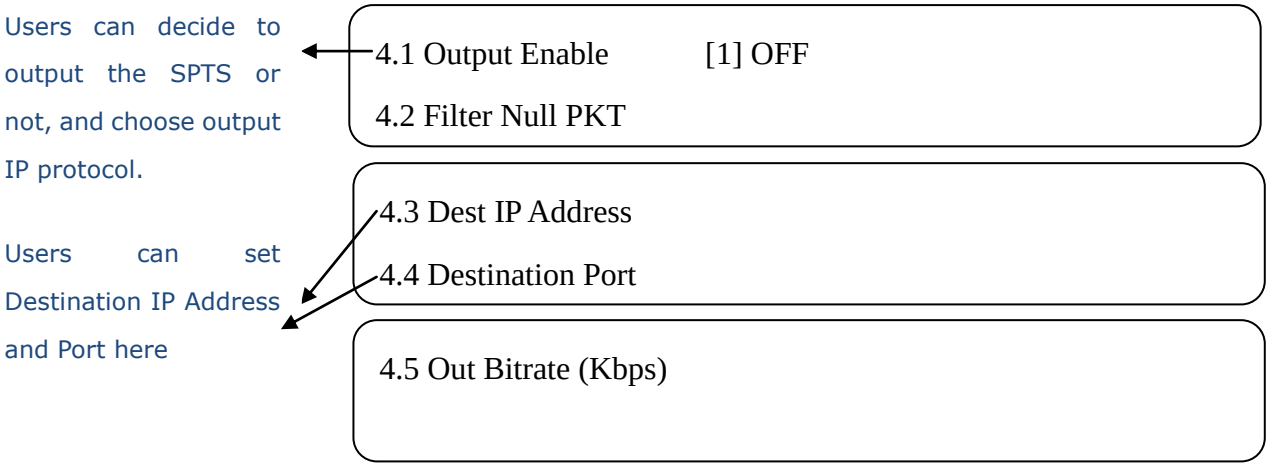


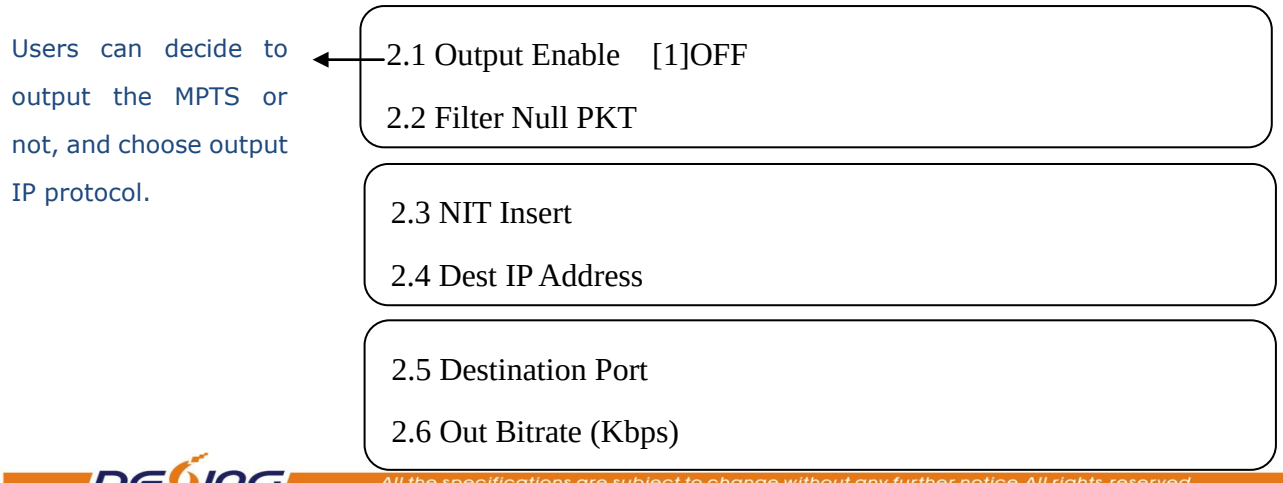
3.2.1.4 Output IP

User can set the SPTS output IP parameters under this menu. The device will display the following page after users pressing the enter key.


Users can decide to output the SPTS or not, and choose output IP protocol.
4.1 Output Enable [1] OFF
4.2 Filter Null PKT
Users can set Destination IP Address and Port here
4.3 Dest IP Address
4.4 Destination Port
4.5 Out Bitrate (Kbps)

3.2.2 MPTS Output Setting

User can set the MPTS output IP parameters under this menu. The device will display the following page after users pressing the enter key.


Users can decide to output the MPTS or not, and choose output IP protocol.
2.1 Output Enable [1]OFF
2.2 Filter Null PKT
2.3 NIT Insert
2.4 Dest IP Address
2.5 Destination Port
2.6 Out Bitrate (Kbps)

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Users can copy a stream from the IP out streams (1 MPTS & 8 SPTS) to output through ASI.

2.7 ASI output [1] MPTS

2.8 TSID and ONID

3.2.3 MUX Setting

Under this menu, user can choose programs to mux out.

3.1 Channel 1

3.2 Channel 2

3.7 Channel 7

3.8 Channel 8

Users can choose to remap PID or not

3.9 ASI Channel

3.10 PID remap

"Channel 1-8" represent the CVBS input. "ASI Channel" represents the ASI input. User could parse and select program(s) to mux out. The setting principle is the same for channel 1-8 and ASI Channel. Here take Channel 1 as example:

Press Enter key to get the program list

3.1 Channel 1

Press Enter key to choose to output the program or not

[01]CCTV 1

Choose" √ "to output the corresponding program. Choose" × " to not output.

CCTV1

▶ √ ×

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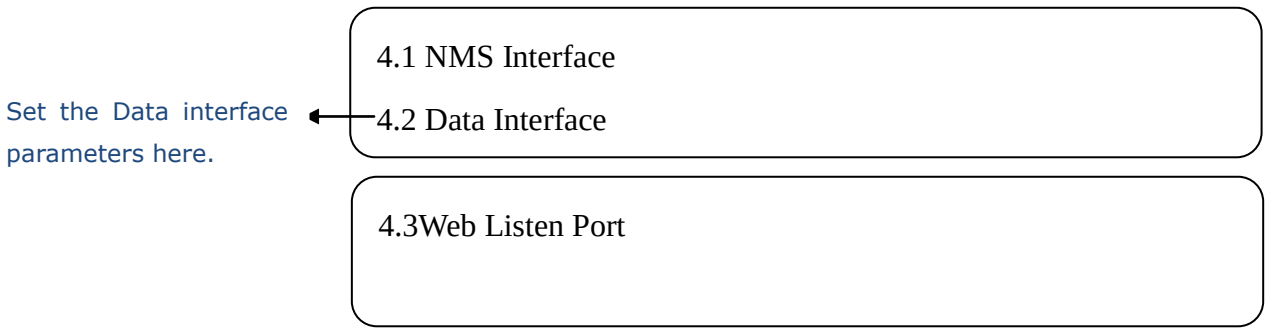
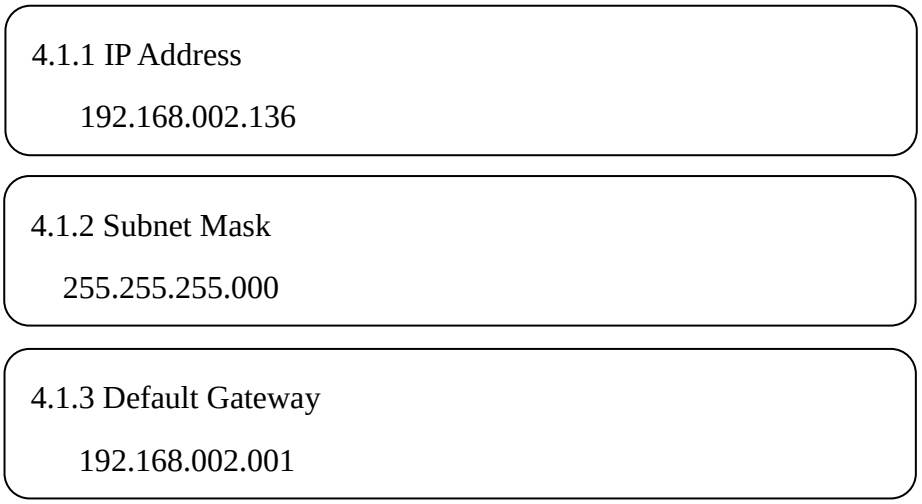
3.2.4 Network Setting

Users can set the network parameters by pressing the enter key, and the LCD will display the following interfaces.



"4.1 NMS Interface", user can set the parameter of NMS to connect with PC.



The MAC address is read-only in the keyboard operation interface, so users can just check the physical address under this interface, and the modification must be done in the network updating tools.

NOTE: The MAC address is unique, and cannot be modified. When the MAC address is ffffffffffff, users must modify the address through special software, otherwise, the IP output data will be filter out when the IP stream passes through the router.

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3.2.5 Save Configuration

Users can save the modification by pressing the enter key, and it will display the following interface when user press the enter key.

5.1 Save Configuration

5.2 Restore configure

5.3 Factory Set

3.2.6 Version

Users can check the device software version and hardware version, and the LCD will display the following interface when users press the ENTER key.

8 in 1 Encoder

SW X.XXF HW X.XX

3.2.7 Language

User can select the needed language under this submenu:

Language [1]English/[2]中文

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Chapter 4 NMS Operation

Network Management System Profile

Network management system is applied to digital TV equipment operation, control and management and parameters setting, etc. It centralizes digital TV equipment through network.

4.1 Login Interface

The factory default IP address is 192.168.2.136 and users can connect the device and web NMS through this IP address.

Connect the PC (Personal Computer) and the device with a net cable, and use ping command to confirm they are on the same network segment. For instance, the PC IP address is 192.168.99.252, we then change the device IP to 192.168.99.xxx (xxx can be 0 to 255 except 252 to avoid IP conflict).

Launch the web browser an input the device IP address in the browser's address bar and press Enter.

It will display the Login interface as Figure-1. Input the Username and Password (Both the default Username and Password are "admin". And then click "Sign In" to start the device setting.

Figure-1

User can login the NMS by pressing **OK** key after inputting user name. Upon the inputs, the software will verify them with database record automatically and the main interface will

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appear.

4.2 Operation

System→Encoder

From the menu on top side of the webpage, clicking "Encoder", it displays the information of the programs from the X encoding board as Figure-2.

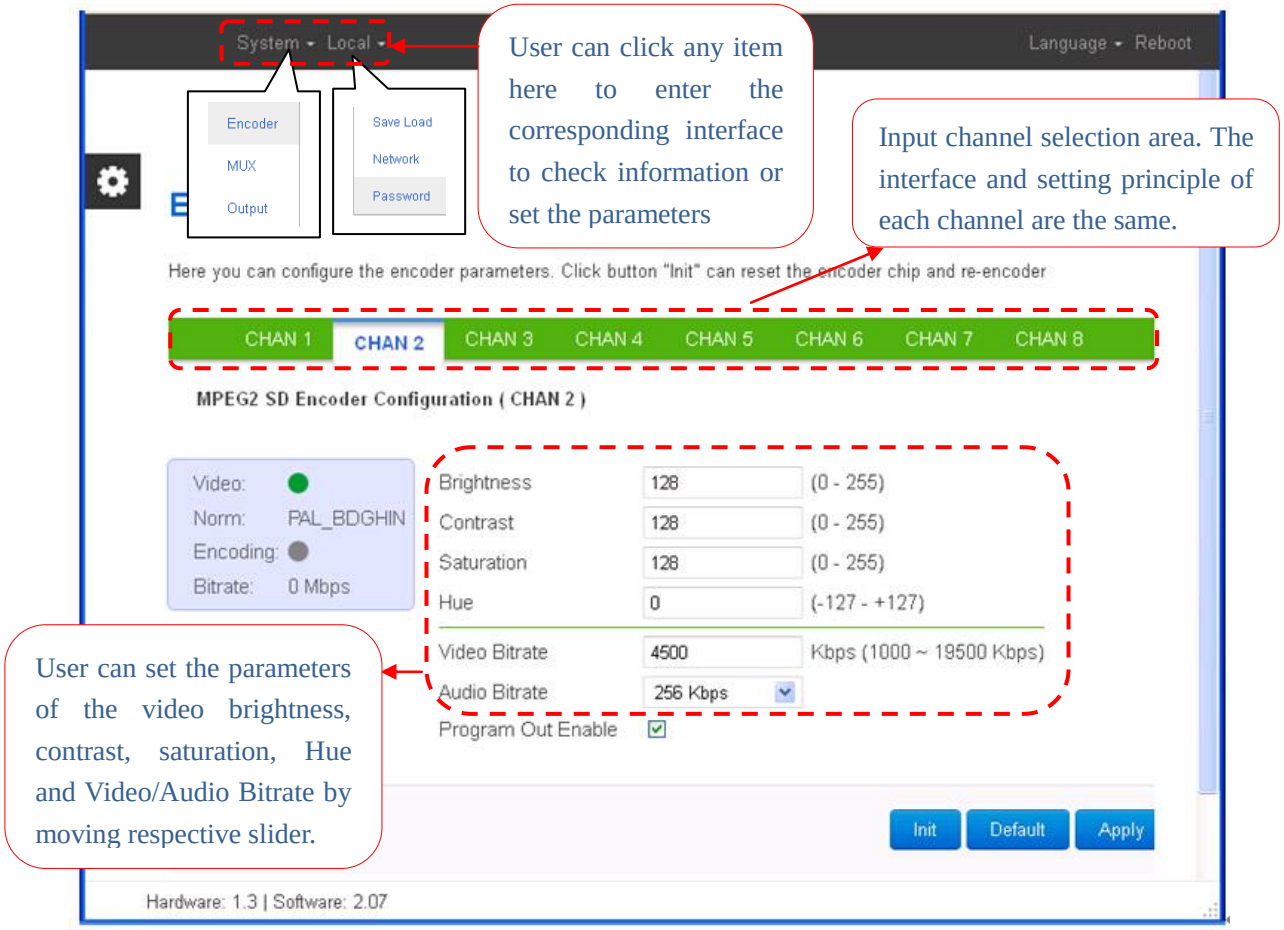
System - Local -
Language - Reboot
Encoder
MUX
Output
Save Load
Network
Password
User can click any item here to enter the corresponding interface to check information or set the parameters
Input channel selection area. The interface and setting principle of each channel are the same.
Here you can configure the encoder parameters. Click button "Init" can reset the encoder chip and re-encoder
CHAN 1
CHAN 2
CHAN 3
CHAN 4
CHAN 5
CHAN 6
CHAN 7
CHAN 8
MPEG2 SD Encoder Configuration (CHAN 2)
Video:
Norm: PAL_BDGHIN
Encoding:
Bitrate: 0 Mbps
Brightness 128 (0 - 255)
Contrast 128 (0 - 255)
Saturation 128 (0 - 255)
Hue 0 (-127 - +127)
Video Bitrate 4500 Kbps (1000 ~ 19500 Kbps)
Audio Bitrate 256 Kbps
Program Out Enable
User can set the parameters of the video brightness, contrast, saturation, Hue and Video/Audio Bitrate by moving respective slider.
Init
Default
Apply
Hardware: 1.3 | Software: 2.07

Figure-2

Init Click this button to reset the encoder chip and re-encoder.

Default Click this button to apply the default setting of Input X

Apply Click this button to apply the modified parameters.

Click this button to choose color schemes and patterns

System→MUX

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Click "MUX", it displays the interface where users can configure the Mux out MPTS. (Figure-3)

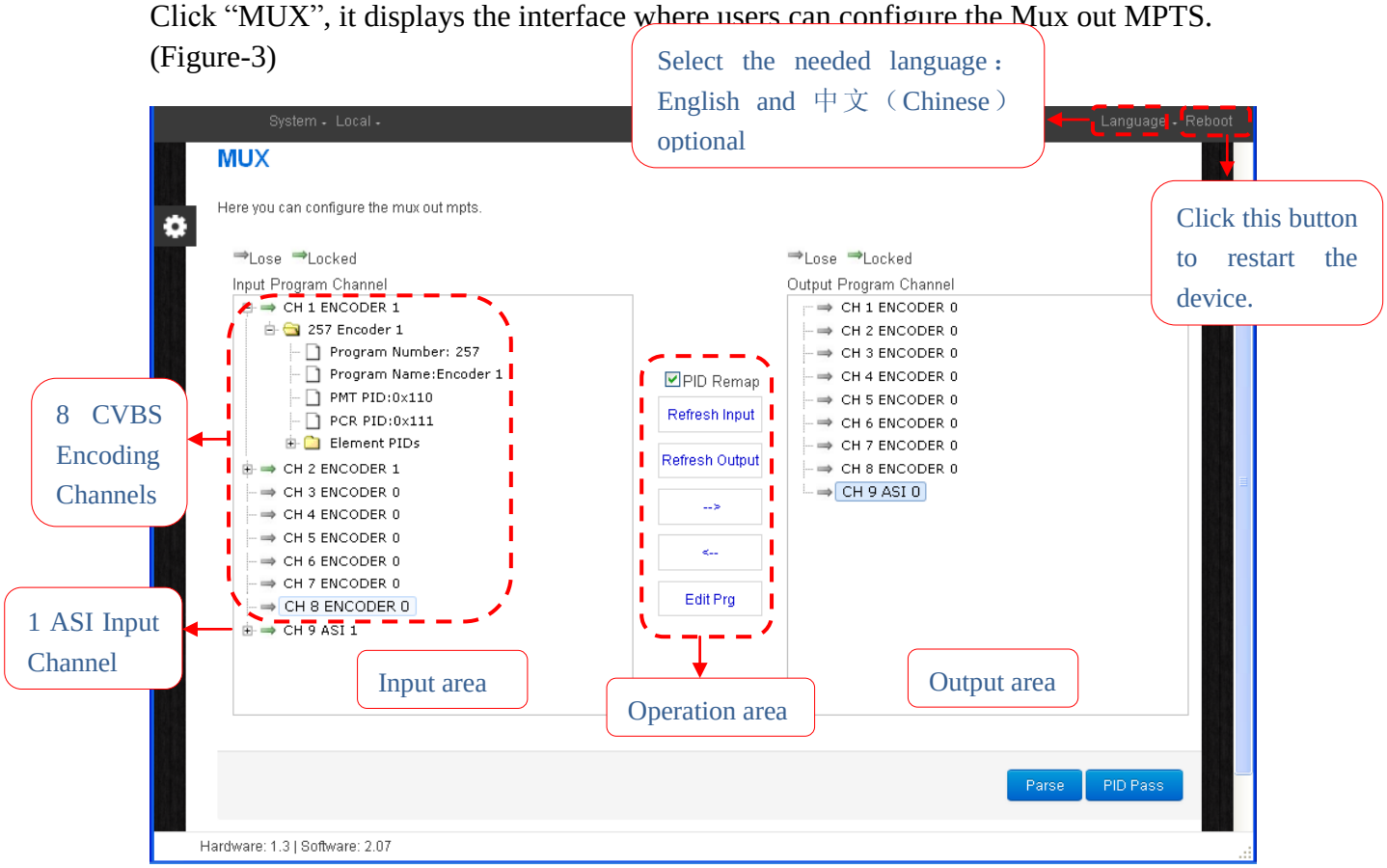

Figure-3

Configure 'Input Area' and 'Output Area' with buttons in 'Operation Area'. Instructions are as below:

PID Remap: To enable/disable the PID remapping

Refresh Input To refresh the input program information

Refresh Output To refresh the output program information

--> Select one input program first and click this button to transfer the selected program to the right box to output.

<-- Similarly, user can cancel the multiplexed programs from the right box.

Program Modification:

The multiplexed program information can be modified by clicking the program in the 'output' area. For example, first select the target a program in the 'output' area, then clicking Edit Prg, it triggers a dialog box (Figure 4) where users can input new information.

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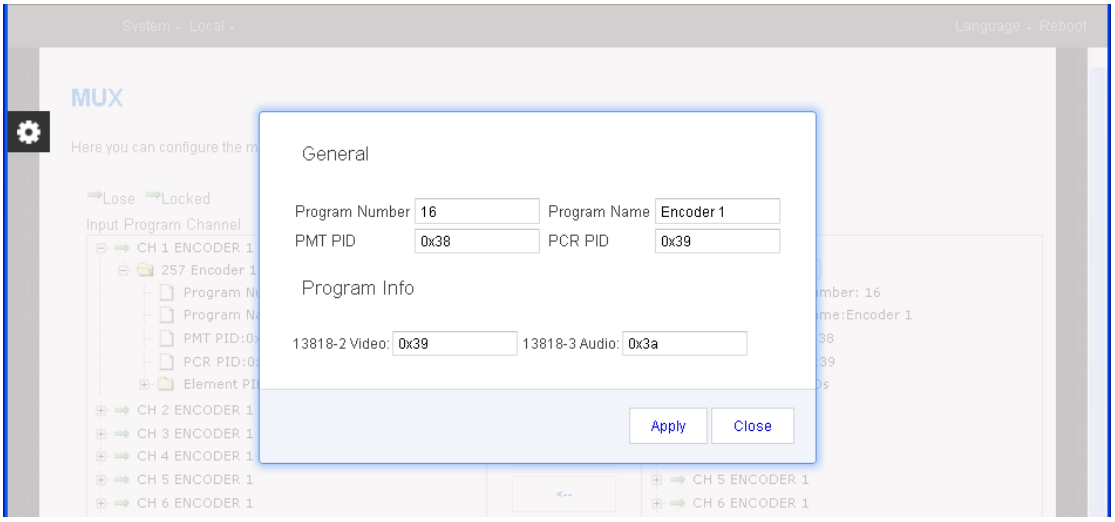

Figure-4

Input new data and click 'Apply' button at last to confirm the modification.

PID Pass:

Clicking PID Pass, it displays the interface where to add the PIDs which need pass through. (Figure-5)

In some occasions, there are some PIDs which won't belong to any program, such as EPG, NIT tables and so on which user just wants to pass them through the multiplexing module without changing anything. This is the main purpose of this function.

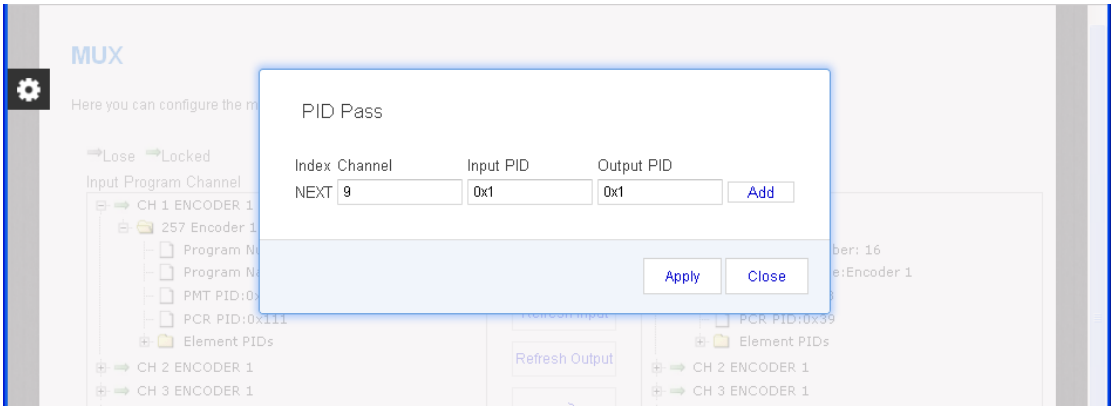

Figure-5

Click "Add" to add more boxes for filling the Input & Output PIDs, then click "Apply" to confirm.

System→Output

Click "Output", it displays the interface where users can configure the IP output, it include SPTS, MPTS and ASI output.

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SPTS Settings:

Under this menu, user can configure the 8 output SPTS parameters separately. (Figure-6)

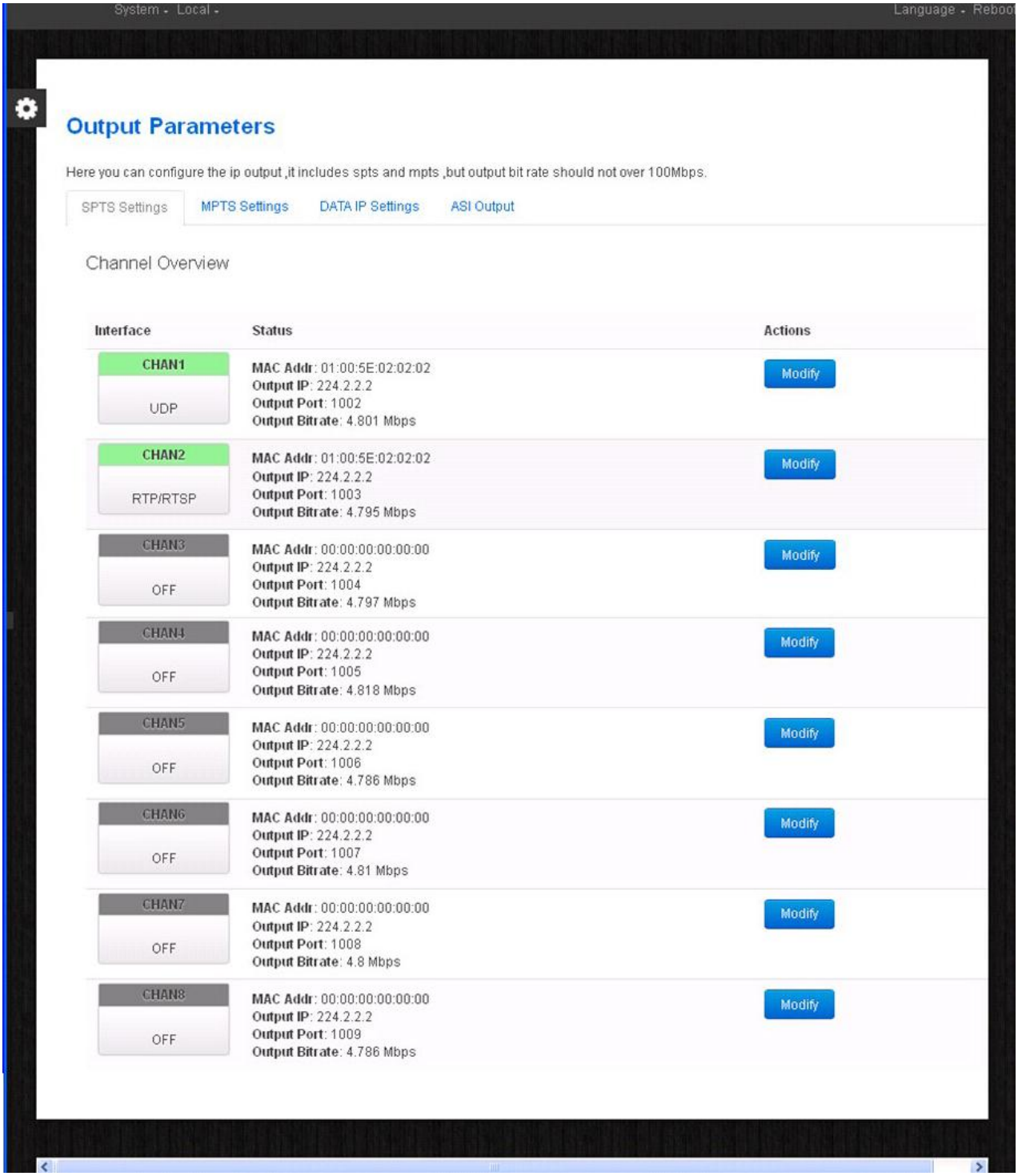

Figure-5

Modify : To modify the output SPTS parameters as needed. By clicking this button to pop up a dialog box as below:

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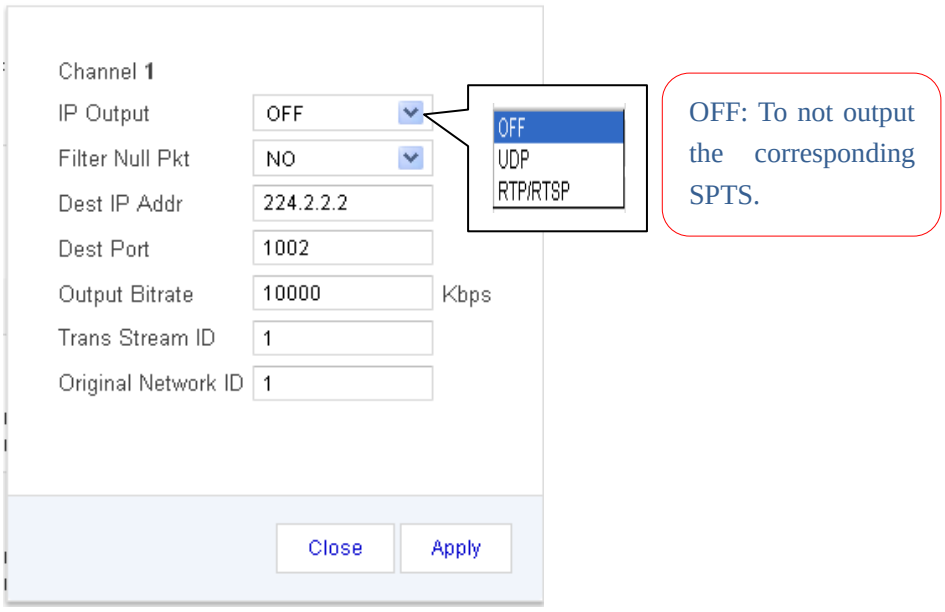

Input new data and click 'Apply' button at last to confirm the modification.

MPTS Settings:

Under this menu, user can configure the output MPTS Parameters. (Figure-6)

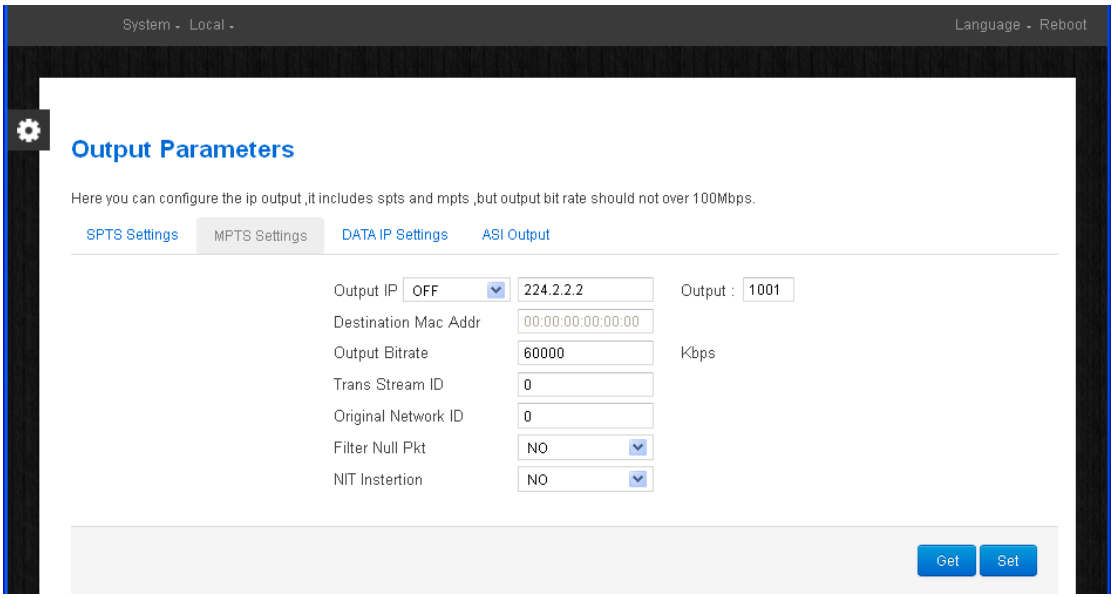

Figure-6

DATA IP Settings:

Data IP Setting is for setting the Data parameters for the device. (Figure-6)

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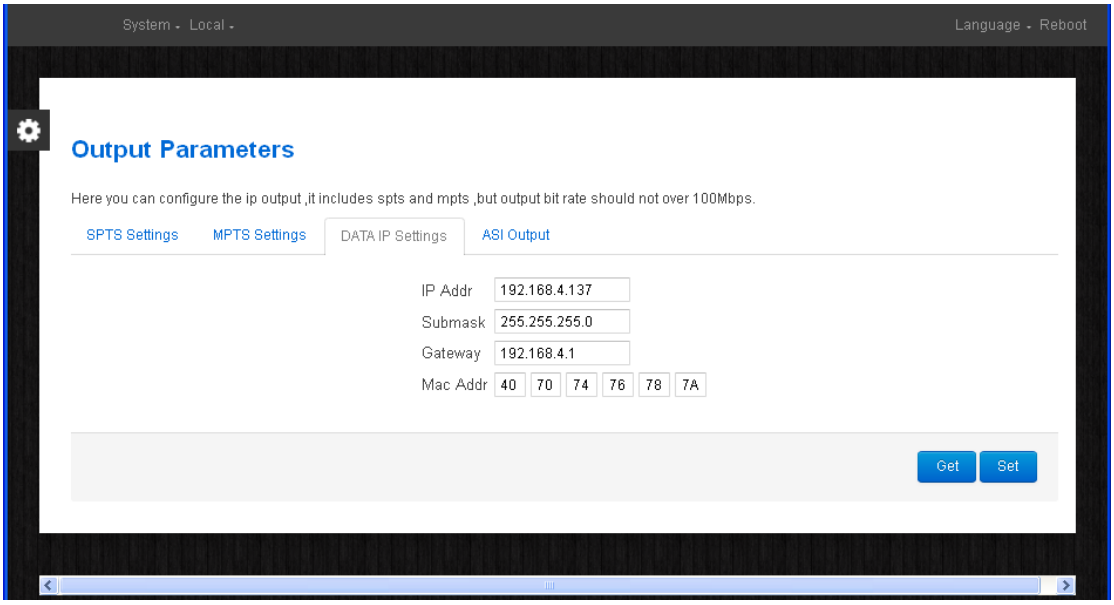

Figure-7

ASI Output:

Clicking "ASI Output" from the menu, it will display the interface as Figure-6 where to choose TS to output from ASI.

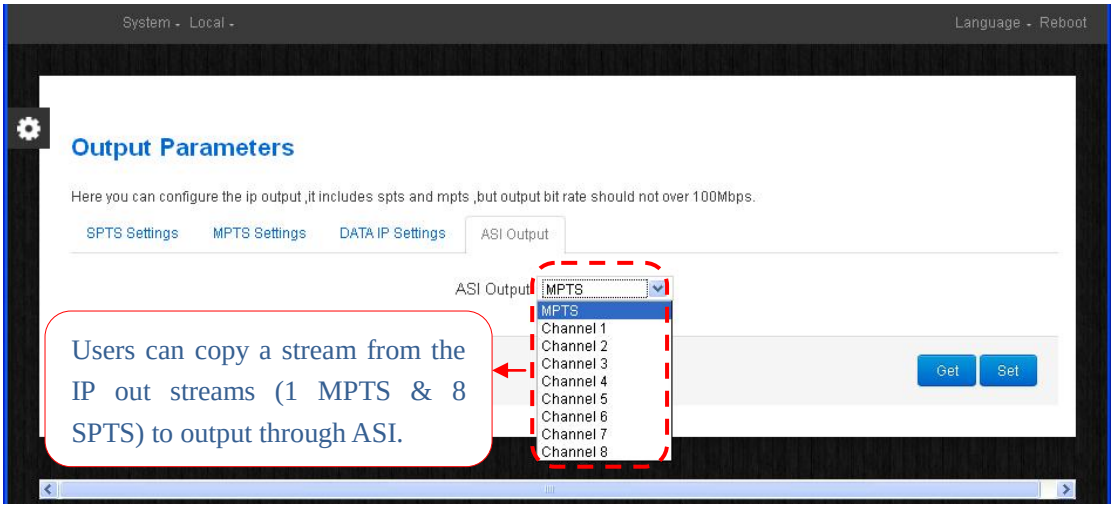

Figure-8

System→Save load

Clicking "Save Load" from the menu, it will display the screen as Figure-9.

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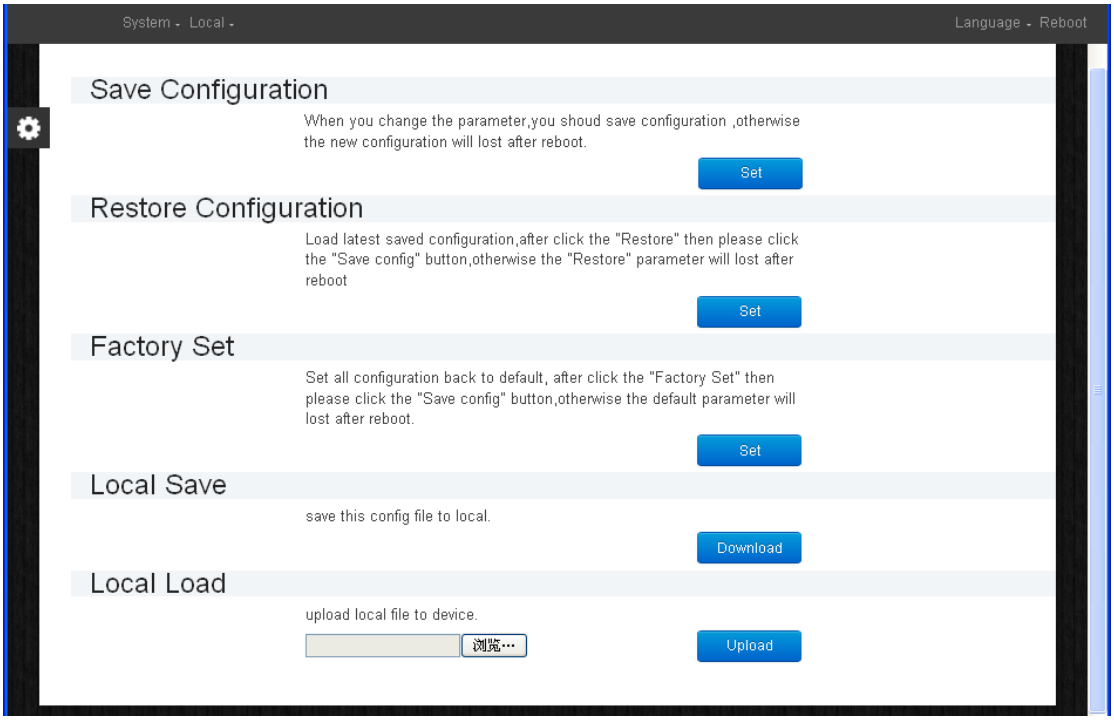
System - Local -
Language - Reboot
Save Configuration
When you change the parameter,you shoud save configuration ,otherwise the new configuration will lost after reboot.
Set
Restore Configuration
Load latest saved configuration,after click the "Restore" then please click the "Save config" button,otherwise the "Restore" parameter will lost after reboot
Set
Factory Set
Set all configuration back to default, after click the "Factory Set" then please click the "Save config" button,otherwise the default parameter will lost after reboot.
Set
Local Save
save this config file to local.
Download
Local Load
upload local file to device.
浏览...
Upload

Figure-9

System→Network

When user clicks "Network", it will display the screen as Figure-10. It displays the network information of the device. Here user can change the device network configuration as needed.

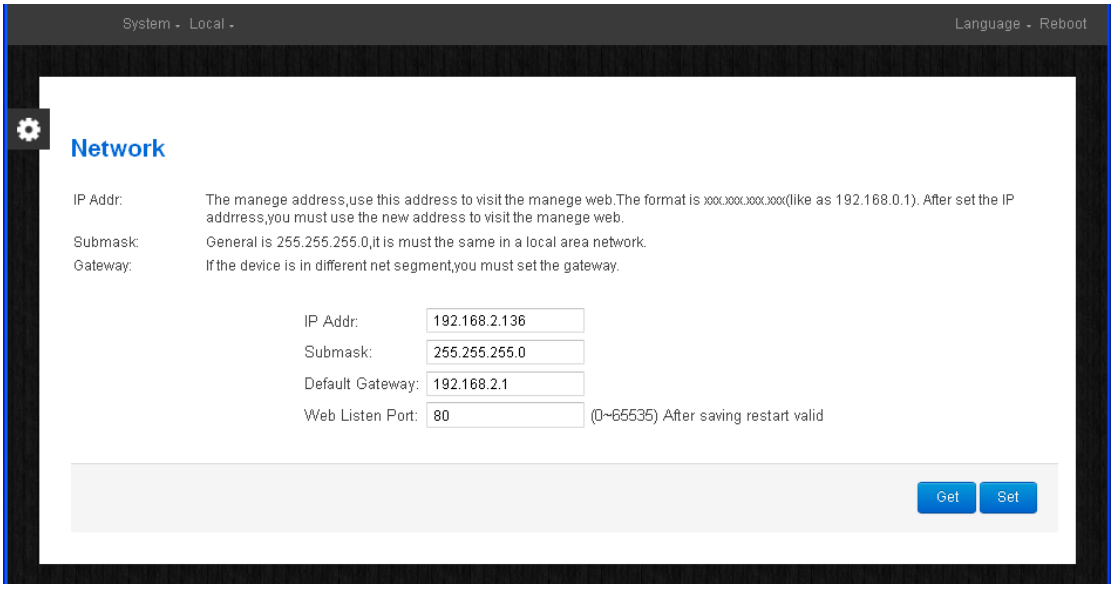
System - Local -
Language - Reboot
Network
IP Addr:
The manege address,use this address to visit the manege web.The format is xxx.xxx.xxx.xxx(like as 192.168.0.1). After set the IP addrress,you must use the new address to visit the manege web.
Submask:
General is 255.255.255.0,it is must the same in a local area network.
Gateway:
If the device is in different net segment,you must set the gateway.
IP Addr: 192.168.2.136
Submask: 255.255.255.0
Default Gateway: 192.168.2.1
Web Listen Port: 80
(0~65535) After saving restart valid
Get
Set

Figure-10

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System→Password

When user clicks "Password", it will display the password screen as Figure-11. Here user can change the Username and Password for login to the device.

After putting the current and new Username and Password, click Apply" to save the configuration.

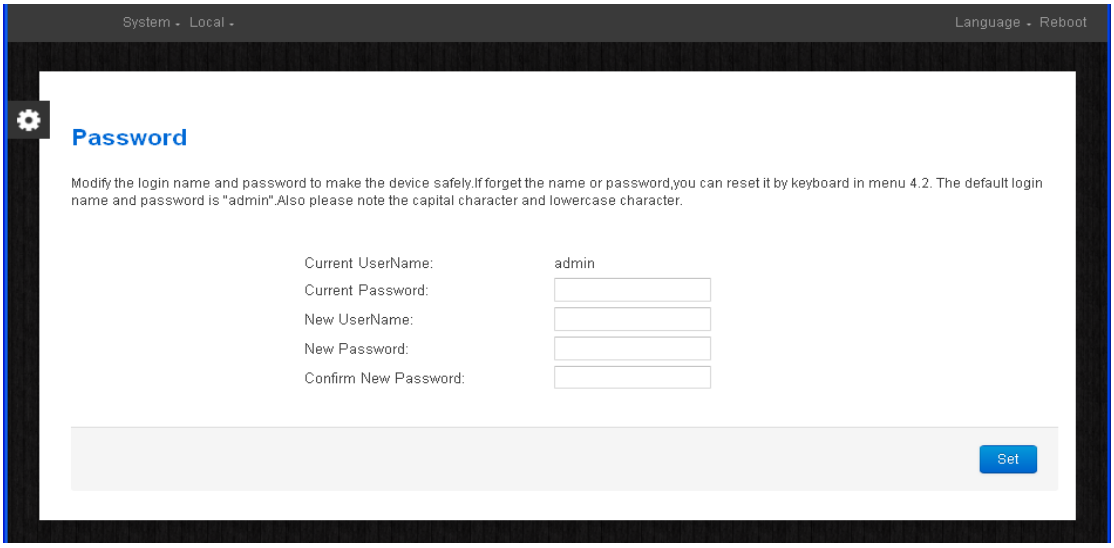
System - Local -
Language - Reboot
Password
Modify the login name and password to make the device safely.If forget the name or password,you can reset it by keyboard in menu 4.2. The default login name and password is "admin".Also please note the capital character and lowercase character.
Current UserName:
admin
Current Password:
New UserName:
New Password:
Confirm New Password:
Set

Figure-11

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Chapter 5 Troubleshooting

DEXIN's ISO9001 quality assurance system has been approved by CQC organization. For guarantee the products' quality, reliability and stability. All DEXIN products have been passed the testing and inspection before ship out factory. The testing and inspection scheme already covers all the Optical, Electronic and Mechanical criteria which have been published by DEXIN. To prevent potential hazard, please strictly follow the operation conditions.

Prevention Measure

- Installing the device at the place in which environment temperature between 0 to 45 ℃
- Making sure good ventilation for the heat-sink on the rear panel and other heat-sink bores if necessary
- Checking the input AC within the power supply working range and the connection is correct before switching on device
- Checking the RF output level varies within tolerant range if it is necessary
- Checking all signal cables have been properly connected
- Frequently switching on/off device is prohibited; the interval between every switching on/off must greater than 10 seconds.

Conditions need to unplug power cord

- Power cord or socket damaged.
- Any liquid flowed into device.
- Any stuff causes circuit short
- Device in damp environment
- Device was suffered from physical damage
- Longtime idle.
- After switching on and restoring to factory setting, device still cannot work properly.
- Maintenance needed

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Chapter 6 Packing list

- NDS3208 8 in 1 MPEG-2 Encoder 1pcs
- User's manual 1pcs
- Analog Audio/Video Composite Input Cable 8 pcs
- ASI cable 1pcs
- Power cord 1pcs

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